

## PATENT COOPERATION TREATY

# **PCT**

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			
15270J-98-1PC	FOR FURTHER ACTION	See Form PCT/IPEA/416	
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
PCT/US04/02856	31 January 2004 (31.01.2004)	01 February 2003 (01.02.2003)	
International Patent Classification (IPC)	or national classification and IPC	(01.02.2003)	
IPC(7): C12N 15/85, 15/86; A61K 39/0	00, 39/395; C07K 5/00 and US Cl.: 530/300, 350	, 387.3; 424/130.1, 178.1, 184.1; 435/325	
1 Approant			
NEURALAB LIMITED			
Examining Additionly union	tional preliminary examination report, estab er Article 35 and transmitted to the applicant	according to Article 36.	
	a total of sheets, including this cover	sheet.	
3. This report is also accomp	panied by ANNEXES, comprising:		
a. (sent to the application	ant and to the International Bureau) a total of	sheets, as follows:	
70.16 and Se	e description, claims and/or drawings which at and/or sheets containing rectifications au action 607 of the Administrative Instructions)	thorized by this Authority (see Rule.	
amendment indicated in	ch supersede earlier sheets, but which that goes beyond the disclosure in the item 4 of Box No. I and the Supplemental Bo	nternational application as filed, as	
b (sent to the Inter	national Bureau only) a total of (indicate type	e and number of electronic carrier(s))	
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indic	ations relating to the following items:		
	asis of the report		
Box No. II Pi	riority		
Box No. III N			
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ack of unity of invention		
Box No. V R	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1 1 5 5 5 5 5 5 5	ertain documents cited	and supporting such succession	
Box No. VII C	ertain defects in the international application		
Box No. VIII C	ertain observations on the international applic	e international application	
Date of submission of the demand	Date of completion	of this report	
20 August 2004 (20.08.2004)	27.0		
Name and mailing address of the IPEA/	27 October 2005 (27	.10.2005)	
Mail Stop PCT, Attn: IPEA/US	i riamonizad diricel	101.4	
Commissioner for Patents P.O. Box 1450	Gregory S. Emch	7. Roberts for	
Alexandria, Virginia 22313-1450	Tolonhana NI- (CT)	<i>(</i> '	
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(April	Telephone No. (571)	) 2/2-1000	

INTERNATIONAL	PRELIMINARY	PRPOPT	ON DATEN	radit mes
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International	application	No.

PCT/US04/0285

Box No. I Basis of the report
1. With regard to the language, this report is based on:
the international application in the language in which it was filed.
a translation of the international application into English, which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4(a))
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-36 as originally filed/furnished
pages* NONE received by this Authority on  pages* NONE received by this Authority on
the claims:
pages 37-46 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on
pages* NONE received by this Authority on
the drawings:
pages 1/2-2/2 as originally filed/furnished
pages* NONE received by this Authority on  pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."

Form PCT/IPEA/409 (Box No. I) (April 2005)

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

			_
International	applie	cation	No

PCT/US04/0285

Supplemental Box Relating to Sequence Listing
Continuation of Box No. I, item 2:
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
on paper
in electronic form
c. time of filing/furnishing
contained in the international application as filed
filed together with the international application in electronic form
furnished subsequently to this Authority for the purposes of search and/or examination
received by this Authority as an amendment* on
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:
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If item 4 in Box No. I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked

Form PCT/IPEA/409 (Supplemental Box Relating to Sequence Listing) (April 2005)

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/02856

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial
_	applicability; citations and explanations supporting such statement

#### 1. Statement

Novelty (N)	Claims Please See Continuation Sheet	YES
•	Claims Please See Continuation Sheet	NO
Town of the Company		
Inventive Step (IS)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO
•	•	
Industrial Applicability (IA)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO

#### 2. Citations and Explanations (Rule 70.7)

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by US 2002/0162129 A1 (LANNEFLT, L. ET AL.) 31 October 2002 (31.10.2002). US 2002/0162129 A1 teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, polynucleotide vaccines, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by US 2002/0094335 A1 (CHALIFOUR, R. ET AL.) 18 July 2002 (18.07.2002). US 2002/0094335 A1 teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, polynucleotide vaccines, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 48, 51-53, 55, 57-58, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by SCHENK, D. ET AL. Immunization with amyloid-b attenuates Alzheimer-disease-like pathology in the PDAPP mouse. Nature 8 July 1999, Vol. 400, No. 6740. SCHENK, D. ET AL. teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 48, 51-53, 55, 57-58, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by SIGURDSSON, E.M. ET AL. Immunization with a Nontoxic/Nonfibrillar Amyloid-b Homologous Peptide Reduces Alzheimer's Disease-Associated Pathology in Transgenic Mice. American Journal of Pathology August 2001, Vol. 159, No. 2, pages 439-447. SIGURDSSON, E.M. ET AL. teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 48, 51-53, 55, 57-58, 96, and 99-102 lack novelty under PCT Article 33(2) as being anticipated by LEMERE, C.A. ET AL. Intranasal immunotherapy for the treatment of Alzheimer's disease: Escherichia coli LT and LT(R192G) as mucosal adjuvants. Neurobiology of Aging November/December 2002, Vol. 23, No. 6. LEMERE, C.A. ET AL. teaches a method of immunization with Abeta fragments for treatment of Alzheimer's disease, pharmaceutical compositions, and immunogenic fragments comprising same.

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 lack an inventive step under PCT Article 33(3) because inventions lacking novelty do not have an inventive step.

Claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, and 99-102 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 2-3, 7, 9-13, 15-16, 18-26, 29-47, 59-50, 54, 56-60, 62-63, 65-73, 76-95 and 97-98 meet the criteria set out in PCT Article 33(2)-(3) because the prior art does not teach or fairly suggest the claimed invention.

Form PCT/IPEA/409 (Box No. V) (April 2005)

		Interr

International application No.

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY PCT/US04/02856 Box No. VII Certain defects in the international application The following defects in the form or contents of the international application have been noted: Claim 48 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: typo in the fifth line.

Form PCT/IPEA/409 (Box No. VII) (April 2005)

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/02856

Supplemental Box
In case the space in any of the preceding boxes is not sufficient.
Continuation of:
•
V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims 2-3, 7, 9-13, 15-16, 18-26, 29-47, 49-50, 54, 56-60, 62-63, 65-73, 76-95, 97-98
The opinion as to Novelty was negative (No) with respect to claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, 99-102
The opinion as to Inventive Step was positive (Yes) with respect to claims 2-3, 7, 9-13, 15-16, 18-26, 29-47, 49-50, 54, 56-60, 62-63, 65-73, 76-95, 97-98
The opinion as to Inventive Step was negative(NO) with respect to claims 1, 4-6, 8, 14, 17, 27, 28, 48, 51-53, 55, 61, 64, 74, 75, 96, 99-102  The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-102  The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE
The spinion as to thousand reprictionity was negative (10) with respect to claims 110112
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